Name: Date:

PCW_09_22 Coordinate transformations v1

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 3 \cdot f[7\,(x+2)] + 6$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 2 \cdot (f[6x - 8] - 9)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{6} - 8\right] - 2}{3}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v1

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 8 \cdot (f[5x + 2] + 9)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{4} + 3\right] + 8}{7}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 8 \cdot f[7\,(x - 5)] - 9$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v2

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 4 \cdot \left(f\left[\frac{x+2}{3} \right] + 7 \right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 5 \cdot f\left[\frac{x-4}{9} \right] + 2$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 6 \cdot \left(f\left[\frac{x}{7} + 9 \right] - 4 \right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v2

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[2\,(x+6)]}{8} - 7$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{7} - 3\right]}{9} + 8$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[4x - 9] - 2}{5}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v3

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 2 \cdot f\left[\frac{x+8}{6}\right] - 3$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 2 \cdot f[9x+5] + 7$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[4x-3]+9}{7}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v3

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{6}+4\right]-9}{8}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 7\cdot\left(f\left[\frac{x-3}{8}\right]+5\right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[2\,(x-7)]}{4}-5$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v4

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 9 \cdot f\left[\frac{x}{4} - 8\right] + 6$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 6 \cdot (f[9\,(x - 8)] - 3)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x-5}{9}\right]}{8} + 6$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v4

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{8}+7\right]}{6}-9$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 2\cdot f\left[\frac{x+7}{9}\right]-4$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 7\cdot(f[9x-6]+5)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v5

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[5x+6]-4}{3}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[2\,(x-5)]}{7} - 4$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 6 \cdot (f[3\,(x+9)]-7)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v5

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x-3}{4}\right]}{2} + 5$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 8 \cdot f\left[\frac{x}{6} + 4\right] + 3$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 2 \cdot f[9x - 3] - 7$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v6

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 8 \cdot f\left[\frac{x+2}{7}\right] + 3$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[8x+2]}{3} - 9$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{5} - 6\right] - 9}{4}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v6

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 6 \cdot (f[7x - 3] - 9)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{6} + 9\right] + 7}{4}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 2 \cdot (f[7\,(x - 4)] + 6)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v7

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[3x+7]}{8} - 4$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 5 \cdot (f[6\,(x-4)] - 3)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[8x-5]}{3} + 4$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v7

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{9}-2\right]-4}{5}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 5 \cdot f\left[\frac{x-2}{7}\right]+4$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x+2}{6}\right]+8}{9}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v8

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 5 \cdot \Big(f\Big[\frac{x}{4} - 7\Big] + 2\Big)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[2x - 7] + 4}{5}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 7 \cdot f[8x + 3] + 6$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v8

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 8 \cdot \left(f\left[\frac{x-9}{3} \right] - 6 \right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[7\,(x-3)] - 6}{2}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{3} + 7\right]}{8} + 6$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v9

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[5\,(x-9)]}{4} - 2$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 2 \cdot \left(f\left[\frac{x+8}{7}\right] - 6 \right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{7}+8\right]}{3} + 5$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v9

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 3 \cdot f\left[\frac{x}{7} - 4\right] - 9$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 9 \cdot (f[7x - 6] + 2)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 7 \cdot f\left[\frac{x - 4}{2}\right] + 8$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v10

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 8 \cdot (f[7\,(x-9)] - 4)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[7\,(x+6)] - 9}{3}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 2 \cdot f[6x+5] + 3$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v10

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[6x-9]}{3}+8$$

For point (a,b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{2}-3\right]+7}{8}$$

For point (a,b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 2\cdot\left(f\left[\frac{x}{7}+5\right]+6\right)$$

For point (a,b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v11

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[6x+2]}{3} + 4$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{4} - 3\right]}{9} - 5$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[6\,(x+4)] - 8}{3}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v11

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{9}+4\right]+8}{3}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 5\cdot\left(f\left[\frac{x+9}{2}\right]-8\right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 5\cdot\left(f\left[\frac{x-6}{8}\right]+2\right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v12

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 6 \cdot f[9x + 5] + 2$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{9} - 3\right] + 4}{8}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[7\,(x - 9)]}{6} - 5$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v12

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 9 \cdot \left(f\left[\frac{x+2}{6} \right] + 3 \right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[8\,(x+3)]}{7} + 5$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 4 \cdot f\left[\frac{x-9}{5} \right] - 7$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v13

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 6 \cdot f\Big[\frac{x}{8} - 5\Big] - 2$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[7\,(x-2)] + 5}{6}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x+5}{2}\right]}{4} - 6$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v13

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 4 \cdot (f[6x + 8] - 9)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 5 \cdot (f[7\,(x + 9)] + 3)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 7 \cdot f\left[\frac{x}{2} + 4\right] + 8$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v14

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 8 \cdot f[3\,(x+6)] - 2$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 4 \cdot f\left[\frac{x}{7} - 5\right] + 6$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 2 \cdot (f[3\,(x-5)] + 8)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v14

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[5x-8]}{7} + 9$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 3 \cdot \left(f\left[\frac{x}{9} + 6\right] - 8 \right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[9x+8]+6}{5}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v15

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x+8}{5}\right]-3}{6}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 3\cdot\left(f\left[\frac{x-8}{2}\right]+6\right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 4\cdot f[6x+9]-3$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v15

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 3 \cdot \left(f\left[\frac{x}{5} + 8 \right] - 4 \right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[9\,(x+7)]}{4} + 6$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 6 \cdot f\left[\frac{x}{4} - 9 \right] + 5$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v16

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[3\,(x+5)]}{4} + 2$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x-6}{7}\right]}{4} - 9$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 7 \cdot (f[9\,(x-5)] - 6)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v16

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 4 \cdot f\left[\frac{x+7}{2}\right] - 9$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{4}+2\right]+9}{8}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 7 \cdot (f[2x-5]+4)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v17

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[7x+6]-4}{5}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 2 \cdot f[5\,(x+6)] + 3$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{2}+4\right]}{8} + 5$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v17

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 4 \cdot (f[6x - 2] + 5)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 3 \cdot f[6\,(x - 9)] - 2$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x+7}{6}\right] + 8}{4}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v18

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 3 \cdot f[5x + 6] - 7$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 6 \cdot (f[9\,(x + 4)] + 8)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[5x - 8]}{6} + 4$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v18

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{9} - 8\right]}{2} - 3$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x+3}{2}\right] - 9}{6}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 9 \cdot f\left[\frac{x-2}{5}\right] + 6$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v19

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x+6}{9}\right]+5}{8}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[6x+8]-2}{4}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 9 \cdot \left(f\left[\frac{x}{4}+6\right]+5\right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v19

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[5\,(x-2)]}{8} - 9$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 7 \cdot f[3\,(x+5)] + 4$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 7 \cdot \left(f\left[\frac{x-4}{6}\right] - 9 \right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Name: Date:

PCW_09_22 Coordinate transformations v20

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x}{9}+5\right]}{3}+2$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f\left[\frac{x-8}{6}\right]+5}{2}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 6\cdot(f[7\,(x-2)]+8)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW_09_22 Coordinate transformations v20

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 2 \cdot (f[3x + 7] - 6)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; \frac{f[3\,(x + 6)]}{4} - 8$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \;=\; 5 \cdot f\left[\frac{x + 6}{2}\right] - 7$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.